

Self-Assessment Checklist

Candidate Name	
Registration No.	
Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standards	Perform Soil Texture Class Identification through Hydrometer
Assessment Task	Analyse the sample to determine the soil texture.

I can.....

Performance Criteria	Yes	No
1. Check sample label for required test.	<input type="checkbox"/>	<input type="checkbox"/>
2. Maintain Laboratory room temperature as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
3. Arrange equipment as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
4. Set up hydrometer in accordance with the standard work instructions.	<input type="checkbox"/>	<input type="checkbox"/>
5. Conduct pre-use and safety checks	<input type="checkbox"/>	<input type="checkbox"/>
6. Set instrument as per standard method.	<input type="checkbox"/>	<input type="checkbox"/>
7. Take soil sample in beaker and add dispersing solution as per requirement.	<input type="checkbox"/>	<input type="checkbox"/>
8. Cover with watch glass and leave as per standard requirement.	<input type="checkbox"/>	<input type="checkbox"/>
9. Process sample as per standard test method.	<input type="checkbox"/>	<input type="checkbox"/>
10. Repeat process and note readings according to test requirement.	<input type="checkbox"/>	<input type="checkbox"/>
11. Check for any breakage in hydrometer.	<input type="checkbox"/>	<input type="checkbox"/>
12. Run Laboratory Control samples as per standard.	<input type="checkbox"/>	<input type="checkbox"/>
13. Perform replicate/re-testing as per lab standards.	<input type="checkbox"/>	<input type="checkbox"/>
14. Record quality control data as per lab procedure.	<input type="checkbox"/>	<input type="checkbox"/>
15. Prepare quality control charts of quality assurance activities according to lab procedure	<input type="checkbox"/>	<input type="checkbox"/>
16. Calculate and Note down textural class using USDA textural triangle.	<input type="checkbox"/>	<input type="checkbox"/>
17. Submit the results to lab In-charge	<input type="checkbox"/>	<input type="checkbox"/>
18. Clear and restore work area	<input type="checkbox"/>	<input type="checkbox"/>

19. Ensure calibration of instrument if required.	<input type="text"/>	<input type="text"/>
20. Ensure temperature as per standard requirement	<input type="text"/>	<input type="text"/>
21. Ensure safety requirements as per lab analysis	<input type="text"/>	<input type="text"/>

Candidate's Signature_____

Assessor's Signature_____

Date: _____

Instruction Sheet for the Candidate

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard(s)	Perform Soil Texture Class Identification through Hydrometer
Candidate Details	Name_____ Registration/Roll Number_____
Guidance for Candidate	To meet this standard, you are required to complete the following within the given time frame (for practical demonstration & assessment): Analyze the sample to determine the soil texture.
Time:240 Mins	During a practical assessment, under observation by an assessor, you are required to Analyze the sample to determine the soil texture. Demonstrate the following criteria: <ol style="list-style-type: none"> 1. Check sample label for required test. 2. Maintain Laboratory room temperature as per requirement. 3. Arrange equipment as per requirement. 4. Set up hydrometer in accordance with the standard work instructions.

Minimum Evidence Required	<ol style="list-style-type: none"> 5. Conduct pre-use and safety checks 6. Set instrument as per standard method. 7. Take soil sample in beaker and add dispersing solution as per requirement. 8. Cover with watch glass and leave as per standard requirement. 9. Process sample as per standard test method. 10. Repeat process and note readings according to test requirement. 11. Check for any breakage in hydrometer. 12. Run Laboratory Control samples as per standard. 13. Perform replicate/re-testing as per lab standards. 14. Record quality control data as per lab procedure. 15. Prepare quality control charts of quality assurance activities according to lab procedure 16. Calculate and Note down textural class using USDA textural triangle. 17. Submit the results to lab In-charge 18. Clear and restore work area 19. Ensure calibration of instrument if required. 20. Ensure temperature as per standard requirement 21. Ensure safety requirements as per lab analysis
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Assessors Judgment Guide

Qualification	National Vocational Certificate level 2 to 5, in Agriculture Sector (Soil, water and fertilizer testing lab technician)
Competency Standard(s)	Perform Soil Texture Class Identification through Hydrometer
Candidate Details	Name: _____ Registration/Roll Number: _____ Signature: _____
Assessment Outcome	COMPETENT <input type="checkbox"/> NOT YET COMPETENT <input type="checkbox"/> Name of the Assessor _____ Assessor's code: _____ Signature: _____

Assessment Summary (to be filled by the assessor)

Activity	Method					Result	
Nature of Activity	Written	Oral	Observation	Portfolio	Role Play	Competent	Not Yet Competent
Practical Skill Demonstration			✓				
Knowledge Assessment		✓					
Other Requirement							

Observation Checklist

Assessment Task	Analyze the sample to determine the soil texture.			
During the practical assessment, candidate demonstrated the following:		Yes	No	Remarks
1.	Checked sample label for required test.			
2.	Maintained Laboratory room temperature as per requirement.			
3.	Arranged equipment as per requirement.			
4.	Set up hydrometer in accordance with the standard work instructions.			

5.	Conducted pre-use and safety checks			
6.	Set instrument as per standard method.			
7.	Took soil sample in beaker and add dispersing solution as per requirement.			
8.	Covered with watch glass and leave as per standard requirement.			
9.	Processed sample as per standard test method.			
10	Repeated process and note readings according to test requirement.			
11	Checked for any breakage in hydrometer.			
12	Run Laboratory Control samples as per standard.			
13	Performed replicate/re-testing as per lab standards.			
14	Recorded quality control data as per lab procedure.			
15	Prepared quality control charts of quality assurance activities according to lab procedure			
16	Calculated and Note down textural class using USDA textural triangle.			
17	Submitted the results to lab In-charge			
18	Cleared and restore work area			
19	Ensured calibration of instrument if required.			
20	Ensured temperature as per standard requirement			
21	Ensured safety requirements as per lab analysis			
Competent <input type="checkbox"/>		Not Yet Competent <input type="checkbox"/>		

Feedback to the Candidate

Candidate's Signature_____	Assessor's Signature_____